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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/922,227**

DATE: 08/13/2001  
TIME: 11:38:51

Input Set : A:\4859.app  
Output Set: N:\CRF3\08132001\1922227.raw

## SEQUENCE LISTING

4 (1) GENERAL INFORMATION:  
5 (i) APPLICANT: Ruoslahti, Erkki  
6 Pasqualini, Renata  
7 (ii) TITLE OF INVENTION: Method of Identifying Molecules That  
8 Home to a Selected Organ In Vivo  
9 (iii) NUMBER OF SEQUENCES: 44  
10 (iv) CORRESPONDENCE ADDRESS:  
11 (A) ADDRESSEE: Campbell & Flores LLP  
12 (B) STREET: 4370 La Jolla Village Drive, Suite 700  
13 (C) CITY: San Diego  
14 (D) STATE: California  
15 (E) COUNTRY: United States  
16 (F) ZIP: 92122  
17 (v) COMPUTER READABLE FORM:  
18 (A) MEDIUM TYPE: Floppy disk  
19 (B) COMPUTER: IBM PC compatible  
20 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
21 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
22 (vi) CURRENT APPLICATION DATA:  
23 (A) APPLICATION NUMBER: US/09/922,227  
24 (B) FILING DATE: 02-Aug-2001  
25 (C) CLASSIFICATION: C  
26 (vii) PRIOR APPLICATION DATA:  
27 (A) APPLICATION NUMBER: US 08/526,710  
28 (B) FILING DATE: 11-SEP-1995  
29 (A) APPLICATION NUMBER: US 08/813,273  
30 (B) FILING DATE: 10-MAR-1997  
31 (A) APPLICATION NUMBER: US 08/862,855  
32 (B) FILING DATE: 23-MAY-1997  
33 (A) APPLICATION NUMBER: US 09/227,906  
34 (B) FILING DATE: 08-JAN-1999  
35 (viii) ATTORNEY/AGENT INFORMATION:  
36 (A) NAME: Campbell, Cathryn A.  
37 (B) REGISTRATION NUMBER: 31,815  
38 (C) REFERENCE/DOCKET NUMBER: P-LJ 4859  
39 (ix) TELECOMMUNICATION INFORMATION:  
40 (A) TELEPHONE: (619) 535-9001  
41 (B) TELEFAX: (619) 535-8949  
42 (2) INFORMATION FOR SEQ ID NO: 1:  
43 (i) SEQUENCE CHARACTERISTICS:  
44 (A) LENGTH: 9 amino acids  
45 (B) TYPE: amino acid  
46 (D) TOPOLOGY: linear  
47 (ii) MOLECULE TYPE: peptide  
48 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
49 Cys Asn Ser Arg Leu His Leu Arg Cys

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75 1 5  
77 (2) INFORMATION FOR SEQ ID NO: 2:  
79 (i) SEQUENCE CHARACTERISTICS:  
80 (A) LENGTH: 9 amino acids  
81 (B) TYPE: amino acid  
82 (D) TOPOLOGY: linear  
84 (ii) MOLECULE TYPE: peptide  
88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
90 Cys Glu Asn Trp Trp Gly Asp Val Cys  
91 1 5  
93 (2) INFORMATION FOR SEQ ID NO: 3:  
95 (i) SEQUENCE CHARACTERISTICS:  
96 (A) LENGTH: 9 amino acids  
97 (B) TYPE: amino acid  
98 (D) TOPOLOGY: circular  
100 (ii) MOLECULE TYPE: peptide  
104 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
106 Cys Leu Ser Ser Arg Leu Asp Ala Cys  
107 1 5  
109 (2) INFORMATION FOR SEQ ID NO: 4:  
111 (i) SEQUENCE CHARACTERISTICS:  
112 (A) LENGTH: 8 amino acids  
113 (B) TYPE: amino acid  
114 (D) TOPOLOGY: linear  
116 (ii) MOLECULE TYPE: peptide  
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
122 Cys Val Leu Arg Gly Gly Arg Cys  
123 1 5  
125 (2) INFORMATION FOR SEQ ID NO: 5:  
127 (i) SEQUENCE CHARACTERISTICS:  
128 (A) LENGTH: 9 amino acids  
129 (B) TYPE: amino acid  
130 (D) TOPOLOGY: linear  
132 (ii) MOLECULE TYPE: peptide  
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
138 Cys Asn Ser Arg Leu Gln Leu Arg Cys  
139 1 5  
141 (2) INFORMATION FOR SEQ ID NO: 6:  
143 (i) SEQUENCE CHARACTERISTICS:  
144 (A) LENGTH: 7 amino acids  
145 (B) TYPE: amino acid  
146 (D) TOPOLOGY: linear  
148 (ii) MOLECULE TYPE: peptide  
152 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
154 Cys Gly Val Arg Leu Gly Cys  
155 1 5  
157 (2) INFORMATION FOR SEQ ID NO: 7:  
159 (i) SEQUENCE CHARACTERISTICS:  
160 (A) LENGTH: 8 amino acids

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161 (B) TYPE: amino acid  
162 (D) TOPOLOGY: linear  
164 (ii) MOLECULE TYPE: peptide  
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
170 Cys Lys Asp Trp Gly Arg Ile Cys  
171 1 5  
174 (2) INFORMATION FOR SEQ ID NO: 8:  
176 (i) SEQUENCE CHARACTERISTICS:  
177 (A) LENGTH: 8 amino acids  
178 (B) TYPE: amino acid  
179 (D) TOPOLOGY: linear  
181 (ii) MOLECULE TYPE: peptide  
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
187 Cys Leu Asp Trp Gly Arg Ile Cys  
188 1 5  
190 (2) INFORMATION FOR SEQ ID NO: 9:  
192 (i) SEQUENCE CHARACTERISTICS:  
193 (A) LENGTH: 8 amino acids  
194 (B) TYPE: amino acid  
195 (D) TOPOLOGY: linear  
197 (ii) MOLECULE TYPE: peptide  
201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
203 Cys Thr Arg Ile Thr Glu Ser Cys  
204 1 5  
206 (2) INFORMATION FOR SEQ ID NO: 10:  
208 (i) SEQUENCE CHARACTERISTICS:  
209 (A) LENGTH: 7 amino acids  
210 (B) TYPE: amino acid  
211 (D) TOPOLOGY: linear  
213 (ii) MOLECULE TYPE: peptide  
217 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
219 Cys Glu Thr Leu Pro Ala Cys  
220 1 5  
222 (2) INFORMATION FOR SEQ ID NO: 11:  
224 (i) SEQUENCE CHARACTERISTICS:  
225 (A) LENGTH: 8 amino acids  
226 (B) TYPE: amino acid  
227 (D) TOPOLOGY: linear  
229 (ii) MOLECULE TYPE: peptide  
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
235 Cys Arg Thr Gly Thr Leu Phe Cys  
236 1 5  
238 (2) INFORMATION FOR SEQ ID NO: 12:  
240 (i) SEQUENCE CHARACTERISTICS:  
241 (A) LENGTH: 8 amino acids  
242 (B) TYPE: amino acid  
243 (D) TOPOLOGY: linear  
245 (ii) MOLECULE TYPE: peptide  
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

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251 Cys Gly Arg Ser Leu Asp Ala Cys  
252 1 5  
254 (2) INFORMATION FOR SEQ ID NO: 13:  
256 (i) SEQUENCE CHARACTERISTICS:  
257 (A) LENGTH: 9 amino acids  
258 (B) TYPE: amino acid  
259 (D) TOPOLOGY: linear  
261 (ii) MOLECULE TYPE: peptide  
265 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
267 Cys Arg His Trp Phe Asp Val Val Cys  
268 1 5  
270 (2) INFORMATION FOR SEQ ID NO: 14:  
272 (i) SEQUENCE CHARACTERISTICS:  
273 (A) LENGTH: 8 amino acids  
274 (B) TYPE: amino acid  
275 (D) TOPOLOGY: linear  
277 (ii) MOLECULE TYPE: peptide  
281 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
283 Cys Ala Asn Ala Gln Ser His Cys  
284 1 5  
287 (2) INFORMATION FOR SEQ ID NO: 15:  
289 (i) SEQUENCE CHARACTERISTICS:  
290 (A) LENGTH: 8 amino acids  
291 (B) TYPE: amino acid  
292 (D) TOPOLOGY: linear  
294 (ii) MOLECULE TYPE: peptide  
298 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
300 Cys Gly Asn Pro Ser Tyr Arg Cys  
301 1 5  
303 (2) INFORMATION FOR SEQ ID NO: 16:  
305 (i) SEQUENCE CHARACTERISTICS:  
306 (A) LENGTH: 21 amino acids  
307 (B) TYPE: amino acid  
308 (D) TOPOLOGY: linear  
310 (ii) MOLECULE TYPE: peptide  
314 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
316 Trp Arg Cys Val Leu Arg Glu Gly Pro Ala Gly Gly Cys Ala Trp Phe  
317 1 5 10 15  
319 Asn Arg His Arg Leu  
320 20  
322 (2) INFORMATION FOR SEQ ID NO: 17:  
324 (i) SEQUENCE CHARACTERISTICS:  
325 (A) LENGTH: 20 amino acids  
326 (B) TYPE: amino acid  
327 (D) TOPOLOGY: linear  
329 (ii) MOLECULE TYPE: peptide  
333 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
335 Tyr Pro Cys Gly Gly Glu Ala Val Ala Gly Val Ser Ser Val Arg Thr  
336 1 5 10 15

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338 Met Cys Ser Glu  
339 20  
343 (2) INFORMATION FOR SEQ ID NO: 18:  
345 (i) SEQUENCE CHARACTERISTICS:  
346 (A) LENGTH: 20 amino acids  
347 (B) TYPE: amino acid  
348 (D) TOPOLOGY: linear  
350 (ii) MOLECULE TYPE: peptide  
354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
356 Leu Asn Cys Asp Tyr Gln Gly Thr Asn Pro Ala Thr Ser Val  
357 1 5 10 15  
359 Pro Cys Thr Val  
360 20  
362 (2) INFORMATION FOR SEQ ID NO: 19:  
364 (i) SEQUENCE CHARACTERISTICS:  
365 (A) LENGTH: 7 amino acids  
366 (B) TYPE: amino acid  
367 (D) TOPOLOGY: linear  
369 (ii) MOLECULE TYPE: peptide  
373 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
375 Leu Ser Ser Arg Leu Asp Ala  
376 1 5  
378 (2) INFORMATION FOR SEQ ID NO: 20:  
380 (i) SEQUENCE CHARACTERISTICS:  
381 (A) LENGTH: 9 amino acids  
382 (B) TYPE: amino acid  
383 (D) TOPOLOGY: linear  
385 (ii) MOLECULE TYPE: peptide  
388 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
390 Val Leu Arg Glu Gly Pro Ala Gly Gly  
391 1 5  
393 (2) INFORMATION FOR SEQ ID NO: 21:  
395 (i) SEQUENCE CHARACTERISTICS:  
396 (A) LENGTH: 7 amino acids  
397 (B) TYPE: amino acid  
398 (D) TOPOLOGY: linear  
400 (ii) MOLECULE TYPE: peptide  
404 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
406 Cys Leu Pro Val Ala Ser Cys  
407 1 5  
409 (2) INFORMATION FOR SEQ ID NO: 22:  
411 (i) SEQUENCE CHARACTERISTICS:  
412 (A) LENGTH: 7 amino acids  
413 (B) TYPE: amino acid  
414 (D) TOPOLOGY: linear  
416 (ii) MOLECULE TYPE: peptide  
420 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
422 Cys Gly Ala Arg Glu Met Cys  
423 1 5

**VERIFICATION SUMMARY**

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Input Set : A:\4859.app

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L 663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L 679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44